



seqlisting.2002.09.04 (edited by Gomez)

SEQUENCE LISTING

<110> Lawton, Robert
Mermer, Brion
Francoeur, Greg

<120> Specific Binding Protein for Treating
Canine Allergy

<130> 01-1275A

<140> 09/281,760
<141> 1999-03-30

<150> 09/058,331
<151> 1998-04-09

<160> 39

<170> FastSEQ for Windows Version 3.0

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<222> (2)...(3)
<223> Xaa = any amino acid

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Leu Xaa Xaa Tyr Arg
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<213> Canis familiaris

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<223> Xaa = Any amino acid

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Tyr Arg Xaa Xaa Leu
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<223> Xaa = Any amino acid

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<222> (6)...(7)
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Leu Xaa Xaa Tyr Arg Xaa Xaa Leu
1 5

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Thr Leu Leu Glu Tyr Arg Met
1 5

<210> 5
<211> 11
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<400> 5
Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys
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1 5 10 15

<210> 8
<211> 14
<212> PRT
<213> Canis familiaris

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Ser Ala Cys Pro Asn Pro His Asn Pro Tyr Cys Gly Gly Gly
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<210> 9

seqlisting.2002.09.04 (edited by Gomez)

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<213> *Canis familiaris*

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Cys Xaa Pro His Xaa Pro Xaa Xaa Cys
1 5

11
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<400> 11
Val Thr Leu Cys Pro Asn Pro His Ile Pro Met Cys
1 5 10

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<212> PRT
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<400> 12
Ser Val Thr Leu Cys Pro Asn Pro His Ile Pro Met Cys Gly Gly
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Lys

14
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<213> *Homo sapiens*

<400> 13
Val Asn Leu Thr Trp Ser Arg
1 5

15
<210> 14
<211> 11

seqlisting.2002.09.04 (edited by Gomez)

<212> PRT
<213> Felis catus

<400> 14
Gly Met Thr Leu Thr Trp Ser Arg Glu Asn Gly
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<210> 15
<211> 11
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Gly Met Asn Leu Thr Trp Ser Arg Glu Ser Lys
1 5 10

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<400> 16
Cys Pro Asn Pro His Ile Pro Met Cys
1 5

<210> 17
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<400> 19
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seqlisting.2002.09.04 (edited by Gomez)

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Cys Thr Asn Pro His Asn Pro Tyr Cys
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<210> 24
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<400> 24
Cys Pro Asn Pro His Asn Pro Tyr Cys
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<210> 25
<211> 9
<212> PRT
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<400> 25
Cys His Pro His Leu Pro Lys Arg Cys
1 5

<210> 26
<211> 17
<212> PRT
<213> Canis familiaris

<400> 26
Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser
1 5 10 15
Ile

<210> 27
<211> 17
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<213> Homo sapiens

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Gln Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser
1 5 10 15
Thr

<210> 28
<211> 17
<212> PRT
<213> *Cercopithecus aethiops*

<400> 28
Gln Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Val Arg Ser
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Thr

<210> 29
<211> 17
<212> PRT
<213> *Felis catus*

<400> 29
Gln Cys Lys Val Thr His Pro Asp Leu Pro Leu Val Ile Val Arg Ser
1 5 10 15
Ile

<210> 30
<211> 17
<212> PRT
<213> *Sus scrofa*

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1 5 10 15
Ile

<210> 31
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<213> *Mus musculus*

<400> 31
Gln Cys Ile Val Asp His Pro Asp Phe Pro Ile Val Arg Ser Ile
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<210> 32
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Lys Cys Thr Val Ser His Pro Asp Leu Pro Arg Glu Trp Arg Ser Ile
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<210> 33
<211> 1842
<212> DNA
<213> *Canis familiaris*

seqlisting.2002.09.04 (edited by Gomez)

<220>
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<222> (136)..(136)
<223> "n" stands for any nucleic acid

<220>
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<221> misc_feature

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<222> (847)..(849)

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<222> (1419)..(1742)

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seqlisting.2002.09.04 (edited by Gomez)
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95 100 105

ctc ttc cac tcc tcc tgc aac ccc gtc ggt gat acc cac acc acc atc 688
Leu Phe His Ser Ser Cys Asn Pro Val Gly Asp Thr His Thr Thr Ile
110 115 120

cag ctc ctg tgc ctc atc tct ggc tac gtc cca ggt gac atg gag gtc 736
Gln Leu Leu Cys Leu Ile Ser Gly Tyr Val Pro Gly Asp Met Glu Val
125 130 135

atc tgg ctg gtg gat ggg caa aag gct aca aac ata ttc cca tac act 784
Ile Trp Leu Val Asp Gly Gln Lys Ala Thr Asn Ile Phe Pro Tyr Thr
140 145 150

gca ccc ggc aca aag gag ggc aac gtc acc tct acc cac agc gag ctc 832
Ala Pro Gly Thr Lys Glu Gly Asn Val Thr Ser Thr His Ser Glu Leu
155 160 165

aac atc acc cag ggn nng tgn gta tcc caa aaa acc tac acc tgc cag 880
Asn Ile Thr Gln Gly Xaa Xaa Val Ser Gln Lys Thr Tyr Thr Cys Gln
170 175 180 185

gtc acc tat caa ggc ttt acc ttt aaa gat gag gct cgc aag tgc tca 928
Val Thr Tyr Gln Gly Phe Thr Phe Lys Asp Glu Ala Arg Lys Cys Ser
190 195 200

gag atggccccc tgccccccag aaacccagat gcgcgaggct cagagatgag 981
Glu

ggccaaggca cgccctcatg cagcctctca cacactgcag ag tcc gac ccc cga 1035
Ser Asp Pro Arg
205

ggc gtg agc agc tac ctg agc cca ccc agc ccc ctt gac ctg tat gtc 1083
Gly Val Ser Ser Tyr Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val
210 215 220

cac aag gcg ccc aag atc acc tgc ctg gta gtg gac ctg gcc acc atg 1131
His Lys Ala Pro Lys Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met
225 230 235

gaa ggc atg aac ctg acc tgg tac cgg gag agc aaa gaa ccc gtg aac 1179
Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
240 245 250

ccg gtc cct ttg aac aag aag gat cac ttc aat ggg acg atc aca gtc 1227
Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
255 260 265 270

acg tct acc ctg cca gtg aac acc aat gac tgg atc gag ggc gag acc 1275
Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr
275 280 285

tac tat tgc agg gtg acc cac ccg cac ctg ccc aag gac atc gtg cgc 1323
Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg
290 295 300

tcc att gcc aag gcc cct ggt gagccacggg cccaggggag gtggcgggc 1374
Ser Ile Ala Lys Ala Pro Gly
305

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ctcctgancc ggagcctggg ctgacccac acctatccac aggc aag cgt gcc ccc 310	Lys Arg Ala Pro	1430
ccg gat gtg tac ttg ttc ctg cca ccg gag gag gag cag ggg acc aag 315 320 325	Pro Asp Val Tyr Leu Phe Leu Pro Pro Glu Glu Glu Gln Gly Thr Lys	1478
gac aga gtc acc ctc acg tgc ctg atc cag aac ttc ttc ccc gag gac 330 335 340 345	Asp Arg Val Thr Leu Thr Cys Leu Ile Gln Asn Phe Pro Glu Asp	1526
att tca gtg caa tgg ctg cga aac gac agc ccc atc cag aca gac cag 350 355 360	Ile Ser Val Gln Trp Leu Arg Asn Asp Ser Pro Ile Gln Thr Asp Gln	1574
tac acc acc acg ggg ccc cac aag gtc tcg ggc tcc agg cct gcc ttc 365 370 375	Tyr Thr Thr Gly Pro His Val Ser Gly Ser Arg Pro Ala Phe	1622
ttc atc ttc agt cgc ctg gtg gac tgg gag cag aaa aac aaa ttc acc 380 385 390	Phe Ile Phe Ser Arg Leu Val Asp Trp Glu Gln Lys Asn Lys Phe Thr	1670
tgc caa gtg gtg cat gag gcg ctg tcc ggc tct agg atc ctc cag aaa 395 400 405	Cys Gln Val Val His Glu Ala Leu Ser Gly Ser Arg Ile Leu Gln Lys	1718
tgg gtg tcc aaa acc ccc ggt aaa tgatgccac cctcccccgg ccgccacccc 410 415	Trp Val Ser Lys Thr Pro Gly Lys	1772
ccagggctcc acctgctggg gcaggggagg ggggctggca agaccctcca tctatccttn		1832
tcaataaaca		1842

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 <223> "n" stands for any nucleic acid
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seqlisting.2002.09.04 (edited by Gomez)

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seqlisting.2002.09.04 (edited by Gomez)

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<220>

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Ser Val Phe Pro Leu Ala Ser Cys Cys Lys Asp Asn Ile Ala Ser Thr
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Ser Val Thr Leu Gly Cys Leu Val Thr Gly Tyr Leu Pro Met Ser Thr
20 25 30

Thr Val Thr Trp Asp Thr Gly Ser Leu Asn Lys Asn Val Thr Thr Phe
35 40 45

Pro Thr Thr Phe His Glu Thr Tyr Gly Leu His Ser Ile Val Ser Gln
50 55 60

Val Thr Ala Ser Gly Glu Trp Ala Lys Gln Arg Phe Thr Cys Ser Val
65 70 75 80

Ala His Xaa Glu Ser Thr Ala Ile Asn Lys Thr Phe Ser Ala
85 90

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<211> 108

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<222> (82)..(82)

seqlisting.2002.09.04 (edited by Gomez)

<223> The 'xaa' at location 82 stands for a stop codon, Trp, or Cys.

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<222> (847)..(849)

seqlisting.2002.09.04 (edited by Gomez)

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Cys Asn Pro Val Gly Asp Thr His Thr Thr Ile Gln Leu Leu Cys Leu
20 25 30

Ile Ser Gly Tyr Val Pro Gly Asp Met Glu Val Ile Trp Leu Val Asp
35 40 45

Gly Gln Lys Ala Thr Asn Ile Phe Pro Tyr Thr Ala Pro Gly Thr Lys
50 55 60

Glu Gly Asn Val Thr Ser Thr His Ser Glu Leu Asn Ile Thr Gln Gly
65 70 75 80

Xaa Xaa Val Ser Gln Lys Thr Tyr Thr Cys Gln Val Thr Tyr Gln Gly
85 90 95

Phe Thr Phe Lys Asp Glu Ala Arg Lys Cys Ser Glu
100 105

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<211> 107

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seqlisting.2002.09.04 (edited by Gomez)
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seqlisting.2002.09.04 (edited by Gomez)

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<221> misc_feature

<222> (1832)..(1832)

<223> "n" stands for any nucleic acid

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Ser Asp Pro Arg Gly Val Ser Ser Tyr Leu Ser Pro Pro Ser Pro Leu
1 5 10 15

Asp Leu Tyr Val His Lys Ala Pro Lys Ile Thr Cys Leu Val Val Asp
20 25 30

Leu Ala Thr Met Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys
35 40 45

Glu Pro Val Asn Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly
50 55 60

Thr Ile Thr Val Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile
65 70 75 80

Glu Gly Glu Thr Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys
85 90 95

Asp Ile Val Arg Ser Ile Ala Lys Ala Pro Gly
100 105

<210> 37

<211> 108

seqlisting.2002.09.04 (edited by Gomez)

<212> PRT

<213> *Canis familiaris*

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seqlisting.2002.09.04 (edited by Gomez)

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1 Lys Arg Ala Pro Pro Asp Val Tyr Leu Phe Leu Pro Pro Glu Glu Glu
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20 Gln Gly Thr Lys Asp Arg Val Thr Leu Thr Cys Leu Ile Gln Asn Phe
25

35 Phe Pro Glu Asp Ile Ser Val Gln Trp Leu Arg Asn Asp Ser Pro Ile
40

50 Gln Thr Asp Gln Tyr Thr Thr Gly Pro His Lys Val Ser Gly Ser
55

65 Arg Pro Ala Phe Phe Ile Phe Ser Arg Leu Val Asp Trp Glu Gln Lys
70

85 Asn Lys Phe Thr Cys Gln Val Val His Glu Ala Leu Ser Gly Ser Arg
90

100 Ile Leu Gln Lys Trp Val Ser Lys Thr Pro Gly Lys
105

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<210> 38

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<212> DNA

<213> Canis familiaris

<220>

<221> CDS

<222> (1)..(213)

<400> 38

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Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
1 5 10 15

ccg gtc cct ttg aac aag aag gat cac ttc aat ggg acg atc aca gtc 96
Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
20 25 30

acg tct acc ctg cca gtg aac acc aat gac tgg atc gag ggc gag acc 144
Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr
35 40 45

tac tat tgc agg gtg acc cac ccg cac ctg ccc aag gac atc gtg cgc 192
Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg
50 55 60

tcc att gcc aag gcc cct ggt 213
Ser Ile Ala Lys Ala Pro Gly
65 70

<210> 39

<211> 71

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<213> Canis familiaris

<400> 39

Glu Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn 15
1 5 10 15

Pro Val Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
20 25 30

Thr Ser Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr
35 40 45

seqlisting.2002.09.04 (edited by Gomez)

Tyr Tyr Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg
50 55 60

Ser Ile Ala Lys Ala Pro Gly
65 70